

DAY 3: HACKATHON 3

“API Integration and Data Migration”

API Integration Process:

Steps:

1. API end-point: '`https://template-03-api.vercel.app/api/products`'
2. Data migration: From provided GitHub repository
3. Project ID: Provide by sanity.io
4. Dataset: Provide by sanity.io
5. Token: Generated unique token
6. Above key variables added in .env file as:
 - a. NEXT_PUBLIC_SANITY_PROJECT_ID
 - b. NEXT_PUBLIC_SANITY_DATASET
 - c. SANITY_API_TOKEN
7. Installed @sanity/client: To establish connection with sanity project.
8. Installed axios: This is used to fetch data and error handling.
9. Installed dotenv: To get data from client

API Integration and Data Migration: (snap)

```

scripts > JS data-migration.mjs > ...
1 import { createClient } from '@sanity/client';
2 import axios from 'axios';
3 import dotenv from 'dotenv';
4 import { fileURLToPath } from 'url';
5 import path from 'path';
6
7 // Load environment variables from .env.local
8 const __filename = fileURLToPath(import.meta.url);
9 const __dirname = path.dirname(__filename);
10 dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
11
12 // Create Sanity client
13 const client = createClient({
14   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
15   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
16   useCdn: false,
17   token: process.env.SANITY_API_TOKEN,
18   apiVersion: '2021-08-31'
19 });
20
21
22 async function uploadImageToSanity(imageUrl) {
23   try {
24     console.log(`Uploading image: ${imageUrl}`);
25     const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
26     const buffer = Buffer.from(response.data);
27     const asset = await client.assets.upload('image', buffer, {
28       filename: imageUrl.split('/').pop()
29     });
30     console.log(`Image uploaded successfully: ${asset._id}`);
31     return asset._id;
32   } catch (error) {
33     console.error('Failed to upload image:', imageUrl, error);
34     return null;
35   }
36 }
37
38 async function importData() {
39   try {
40     console.log('migrating data please wait...');
41
42     // API endpoint containing car data
43     const response = await axios.get('https://template-03-api.vercel.app/api/products');
44     const products = response.data.data;
45     console.log('products ==>> ', products);
46

```

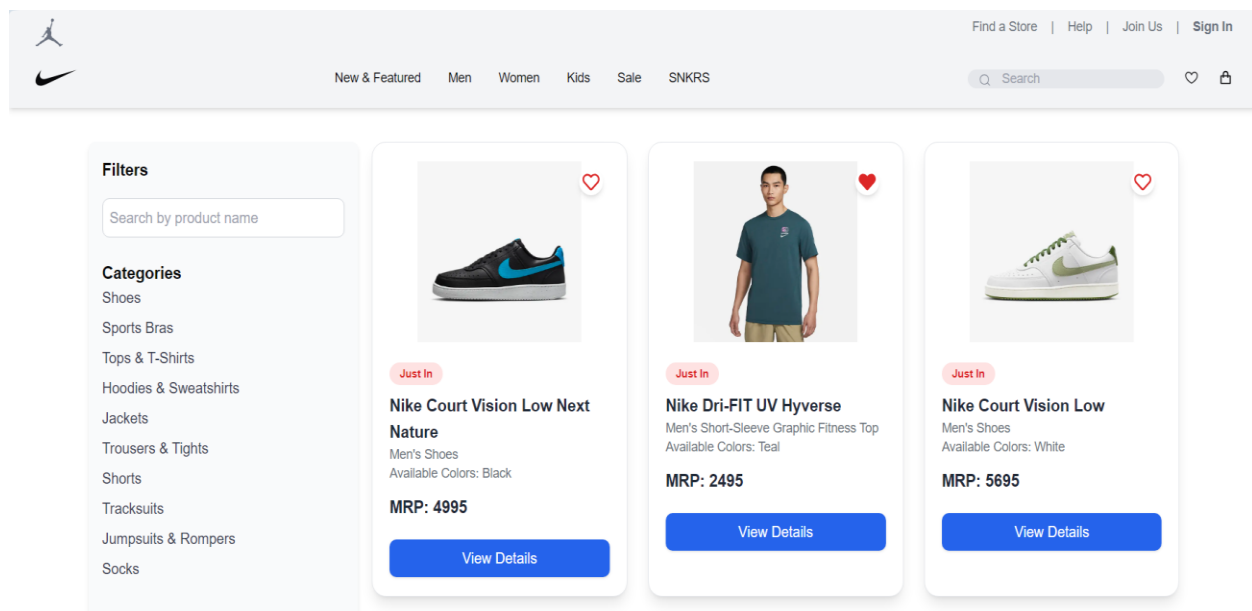
```

48     for (const product of products) {
49       let imageRef = null;
50       if (product.image) {
51         imageRef = await uploadImageToSanity(product.image);
52       }
53
54       const sanityProduct = {
55         _type: 'product',
56         productName: product.productName,
57         category: product.category,
58         price: product.price,
59         inventory: product.inventory,
60         colors: product.colors || [], // Optional, as per your schema
61         status: product.status,
62         description: product.description,
63         image: imageRef ? {
64           _type: 'image',
65           asset: {
66             _type: 'reference',
67             _ref: imageRef,
68           },
69         } : undefined,
70       };
71
72       await client.create(sanityProduct);
73     }
74
75     console.log('Data migrated successfully!');
76   } catch (error) {
77     console.error('Error in migrating data ==>> ', error);
78   }
79 }
80
81 importData();

```

```
{
  productName: "Nike Air Force 1 Mid '07",
  category: "Men's Shoes",
  price: 10795,
  inventory: 20,
  colors: [ 'White' ],
  status: 'Just In',
  image: 'https://template-03-api.vercel.app/products/1.png',
  description: "The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive support for long-lasting performance."
},
{
  productName: 'Nike Court Vision Low Next Nature',
  category: "Men's Shoes",
  price: 4995,
  inventory: 35,
  colors: [ 'Black' ],
  status: 'Just In',
  image: 'https://template-03-api.vercel.app/products/2.png',
  description: 'The Nike Court Vision Low Next Nature combines retro basketball style with modern sustainability. Made with at least 20% recycled content, it features a sleek design, durable materials, and ultimate comfort for everyday wear.'
},
{
  productName: 'Nike Air Force 1 PLT.AF.ORM',
  category: "Women's Shoes",
  price: 8695,
  inventory: 18,
  colors: [ 'White' ],
  status: 'Just In',
  image: 'https://template-03-api.vercel.app/products/3.png',
  description: "The Nike Air Force 1 PLT.AF.ORM elevates the iconic AF1 silhouette with bold design updates. Featuring a platform sole and premium materials, this women's shoe redefines style and comfort in a fresh, modern way."
},
}
```

UI Interface:



Schema:

```
1 export const productSchema = {
2   name: 'product',
3   title: 'Product',
4   type: 'document',
5   fields: [
6     {
7       name: 'productName',
8       title: 'Product Name',
9       type: 'string',
10    },
11    {
12      name: 'category',
13      title: 'Category',
14      type: 'string',
15    },
16    {
17      name: 'price',
18      title: 'Price',
19      type: 'number',
20    },
21    {
22      name: 'inventory',
23      title: 'Inventory',
24      type: 'number',
25    },
26    {
27      name: 'colors',
28      title: 'Colors',
29      type: 'array',
30      of: [{ type: 'string' }],
31    },
32    {
33      name: 'status',
34      title: 'Status',
35      type: 'string',
36    },
37    {
38      name: 'image',
39      title: 'Image',
40      type: 'image', // Using Sanity's image type for image field
41      options: {
42        hotspot: true,
43      },
44    },
45    {
46      name: 'description',
47      title: 'Description',
48      type: 'text',
49    },
50  ],
51 }
```

Studio:

